

Amendments to the Specification:

Please amend the paragraph beginning at page 5, line 8 as follows:

Figure 1 illustrates an embodiment of a system for providing parallel apply in asynchronous data replication in a database system in accordance with the present invention. The system includes a source node 101 and a target node 106. At the source node 101 are one or more source table copies 102, a recovery log 103, a Capture program 104 (“Capture”), and a send queue 105. At the target node 106 are a receive queue 107, an Apply program (“Apply”) 108 and one or more target table copies 109. Apply 108 includes a browser thread 109, a work queue 110, a done queue 111, and one or more agent threads 112. Capture 104 reads changes of committed transactions from the recovery log 103 and sends them to Apply 108 running on the target node 106. Apply 108 eventually re-executes the changes of the transactions.

Please amend the paragraph beginning at page 11, line 1 as follows:

In this embodiment, application of the changes is performed using generated Structured Query Language (SQL) statements of a non-proprietary nature. These SQL statements may or may not be exactly the same as the originating SQL statements made at the source node 101. However, the net effect of these changes is typically identical to the net effect of the changes made by the originating SQL statements. For example, an originating SQL statement such as “DELETE FROM SOURCE.TABLE” could be made. This statement would have the effect of deleting all rows from the table named SOURCE.TABLE. If there were five rows in the table at this point in time, then there would be five rows deleted, and five log records would be generated on the recovery log. Each log record would indicate the delete operation of one of the five rows. From the inspection of the recovery log, the five operations would be used to capture the information of five distinct data events, all of which occurred during a single transaction. This

transaction would be queued and moved to the target node 106, and the application of these changes would be made as five distinct SQL ~~statement~~ statements, with each SQL statement ~~each~~ targeting one of the individual rows of the corresponding target table copy. At the commit point of this applied transaction, the functional equivalence point is then reached, such that the same five rows have been deleted from the corresponding source and target table copies. Thus, the method and system in accordance with the present invention is a non-proprietary implementation of Apply. It could be extended for use in any database that accepts standard SQL and has the general database property of atomicity.